

6. Make sure the 8 mm bolts (A, **Figure 43**) and the 10 mm bolts (B, **Figure 43**) securing the gear case together are tight. Tighten, if necessary, to the torque specifications listed in **Table 1**.

SIDE DRIVE SHAFT

Removal/Installation

Refer to **Figure 44** for this procedure.

1. Remove the bolts securing the side drive shaft cover (**Figure 45**) and remove the cover.
2. Remove the circlip (**Figure 46**) from each end of the drive shaft.

NOTE

The side drive shaft is symmetrical and can be installed in either direction. If the vehicle is well run-in (high mileage) the splines may have taken a wear pattern. It is advisable to reinstall the side drive shaft and joints in the same location. Mark the front end of the shaft and the front joint with a marking pen or piece of masking tape so these 2 parts will be reinstalled in the same location.

3. Use a long drift or punch and hammer (**Figure 47**) and carefully tap the side drive shaft joints free from both the output shaft and the front gear case. Be sure to place the punch on the shoulder (A, **Figure 48**) to avoid damage to the side joint and its inner splines.
4. Remove the side drive shaft assembly (B, **Figure 48**).
5. Install by reversing these removal steps while noting the following:
 - a. Apply molybdenum disulfide grease to the splines of each end of the side drive shaft and to the joints.
 - b. Apply clean engine oil to the O-ring seals.
 - c. Make sure the circlips are correctly seated (**Figure 49**) in their grooves in the side drive shaft.
 - d. Make sure the side drive shaft (**Figure 50**) is correctly seated at both ends. Try to move it back and forth, there should be only slight movement.
 - e. Install the side cover and tighten the bolts to the torque specification listed in **Table 1**.

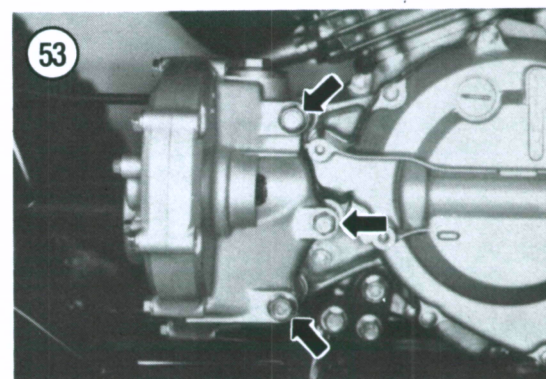
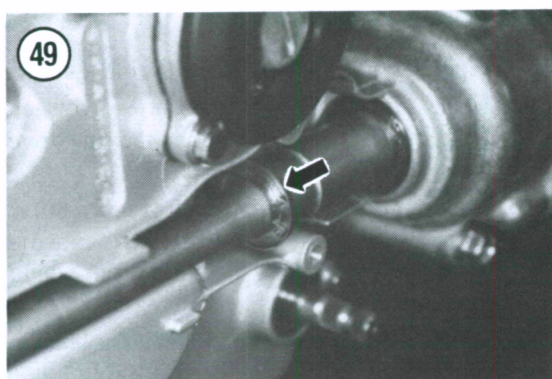
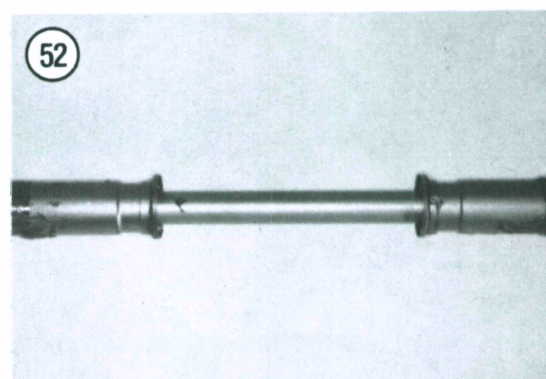
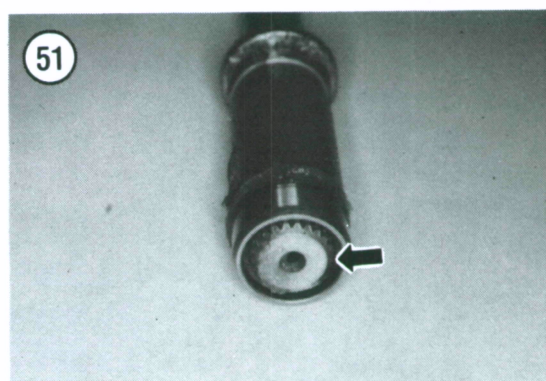
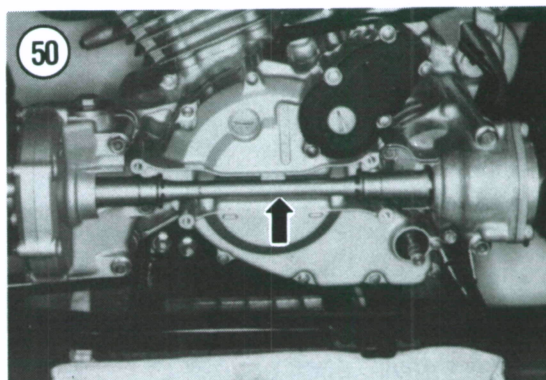
Inspection

1. Inspect the splines of the joints (**Figure 51**) and the side drive shaft for wear or damage. Replace if necessary.
2. Inspect the O-rings for damage or deterioration, replace if necessary.
3. Check the side drive shaft (**Figure 52**) for cracks, fractures or damage, replace if necessary.

FRONT GEAR CASE

Removal/Installation

1. Remove the front fender as described in Chapter Thirteen.
 2. Remove the side drive shaft as described in this chapter.
 3. Drain the oil from the front gear case as described in Chapter Three.
 4. Remove the bolts securing the propeller shaft cover (**Figure 45**) and remove the cover.
 5. Remove the front gear case mounting bolts (**Figure 53**) on the left-hand side.
 6. Remove the front gear case mounting bolts and bracket (**Figure 54**) on the right-hand side.
 7. Carefully move the front gear case (A, **Figure 55**) to the left-hand side, pull the propeller shaft toward the front gear case and remove the propeller shaft (B, **Figure 55**) from the front differential.
 8. Remove the front gear case and the propeller shaft from the left-hand side of the frame.
 9. Installation is the reverse of these removal steps.
- Note the following:
- a. Apply molybdenum disulfide grease to the splines of each end of the propeller shaft and to the oil seal of the front differential.



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